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TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	DEC 18	CA/CAPplus pre-1967 chemical substance index entries enhanced with preparation role
NEWS	4	DEC 18	CA/CAPplus patent kind codes updated
NEWS	5	DEC 18	MARPAT to CA/CAPplus accession number crossover limit increased to 50,000
NEWS	6	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS	7	DEC 27	CA/CAPplus enhanced with more pre-1907 records
NEWS	8	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS	9	JAN 16	CA/CAPplus Company Name Thesaurus enhanced and reloaded
NEWS	10	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS	11	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS	12	JAN 22	CA/CAPplus updated with revised CAS roles
NEWS	13	JAN 22	CA/CAPplus enhanced with patent applications from India
NEWS	14	JAN 29	PHAR reloaded with new search and display fields
NEWS	15	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS	16	FEB 15	PATDPASPC enhanced with Drug Approval numbers
NEWS	17	FEB 15	RUSSIAPAT enhanced with pre-1994 records
NEWS	18	FEB 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS	19	FEB 26	MEDLINE reloaded with enhancements
NEWS	20	FEB 26	EMBASE enhanced with Clinical Trial Number field
NEWS	21	FEB 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS	22	FEB 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS	23	FEB 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS	24	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS	25	MAR 16	CASREACT coverage extended
NEWS	26	MAR 20	MARPAT now updated daily
NEWS	27	MAR 22	LWPI reloaded
NEWS EXPRESS	NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.		
NEWS HOURS	STN Operating Hours Plus Help Desk Availability		
NEWS LOGIN	Welcome Banner and News Items		
NEWS IPC8	For general information regarding STN implementation of IPC 8		
NEWS X25	X.25 communication option no longer available		

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:35:39 ON 23 MAR 2007

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 15:35:49 ON 23 MAR 2007

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STRUCTURE FILE UPDATES: 22 MAR 2007 HIGHEST RN 927959-98-6

DICTIONARY FILE UPDATES: 22 MAR 2007 HIGHEST RN 927959-98-6

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

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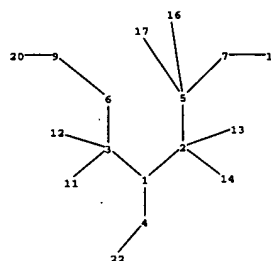
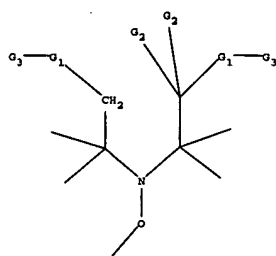
Uploading C:\Program Files\Stnexp\Queries\10506700-most-broad.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



chain nodes :

1 4 5 6 7 9 16 17 19 20

ring/chain nodes :

2 3 11 12 13 14 22

chain bonds :

1-2 1-3 1-4 2-5 3-6 4-22 5-7 5-16 5-17 6-9 7-19 9-20

ring/chain bonds :

2-13 2-14 3-11 3-12

exact/norm bonds :

1-2 1-3 1-4 2-13 2-14 3-11 3-12 4-22 5-7 5-16 5-17 6-9 7-19 9-20

exact bonds :

2-5 3-6

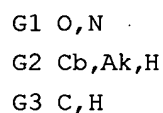
G1:O,N

G2:Cb,Ak,H

G3:C,H

Match level :

1:CLASS2:CLASS3:CLASS4:CLASS5:CLASS6:CLASS7:CLASS9:CLASS11:CLASS12:CLASS13:CLASS14:CLASS16:CLASS17:CLASS19:CLASS20:CLASS22:CLASS



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SAMPLE SCREEN SEARCH COMPLETED -      4 TO ITERATE
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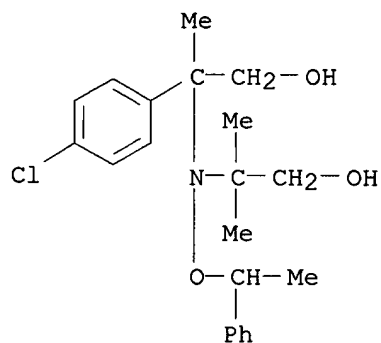
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FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:   4 TO      200
PROJECTED ANSWERS:      2 TO      124

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FULL SCREEN SEARCH COMPLETED -      72 TO ITERATE
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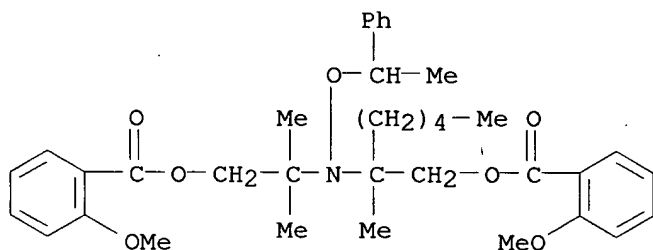
L3 26 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Benzeneethanol, 4-chloro-β-[(2-hydroxy-1,1-dimethylethyl)(1-phenylethoxy)amino]-β-methyl- (9CI)
MF C21 H28 Cl N O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

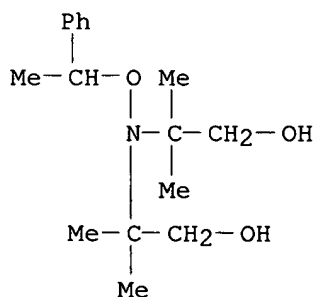
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

L3 26 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN Benzoic acid, 2-methoxy-, 2-[[2-[(2-methoxybenzoyl)oxy]-1,1-dimethylethyl] (1-phenylethoxy)amino]-2-methylheptyl ester (9CI)
 MF C36 H47 N O7



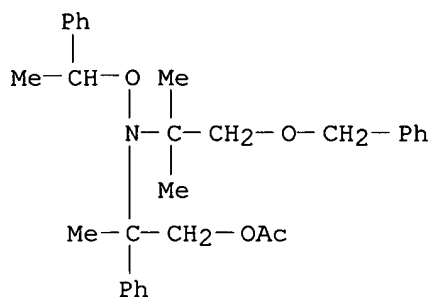
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 26 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN 1-Propanol, 2,2'-[(1-phenylethoxy)imino]bis[2-methyl- (9CI)
 MF C16 H27 N O3



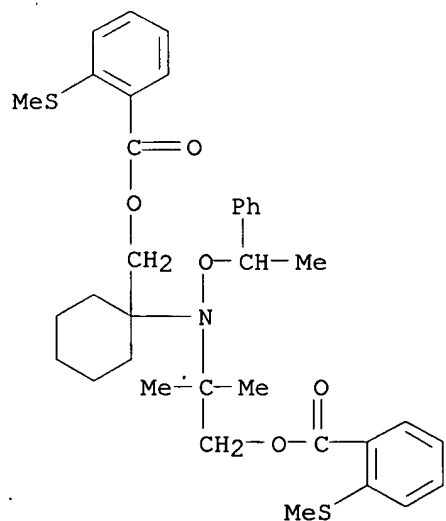
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 26 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN Benzeneethanol, β -[[1,1-dimethyl-2-(phenylmethoxy)ethyl](1-phenylethoxy)amino]- β -methyl-, acetate (ester) (9CI)
 MF C30 H37 N O4



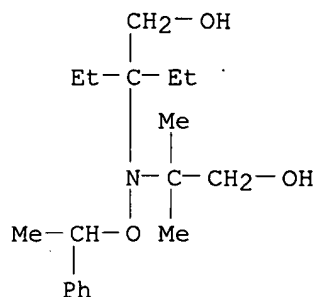
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 26 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN Benzoic acid, 2-(methylthio)-, [1-[[1,1-dimethyl-2-[[2-(methylthio)benzoyl]oxy]ethyl](1-phenylethoxy)amino]cyclohexyl]methyl ester (9CI)
 MF C35 H43 N O5 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 26 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN 1-Butanol, 2-ethyl-2-[(2-hydroxy-1,1-dimethylethyl)(1-phenylethoxy)amino]- (9CI)
 MF C18 H31 N O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.55

172.76

FILE 'CAPLUS' ENTERED AT 15:37:03 ON 23 MAR 2007

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FILE COVERS 1907 - 23 Mar 2007 VOL 146 ISS 14

FILE LAST UPDATED: 22 Mar 2007 (20070322/ED)

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=> s 13

L4 3 L3

=> d 13 ibib abs hitstr 1-

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:n

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YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

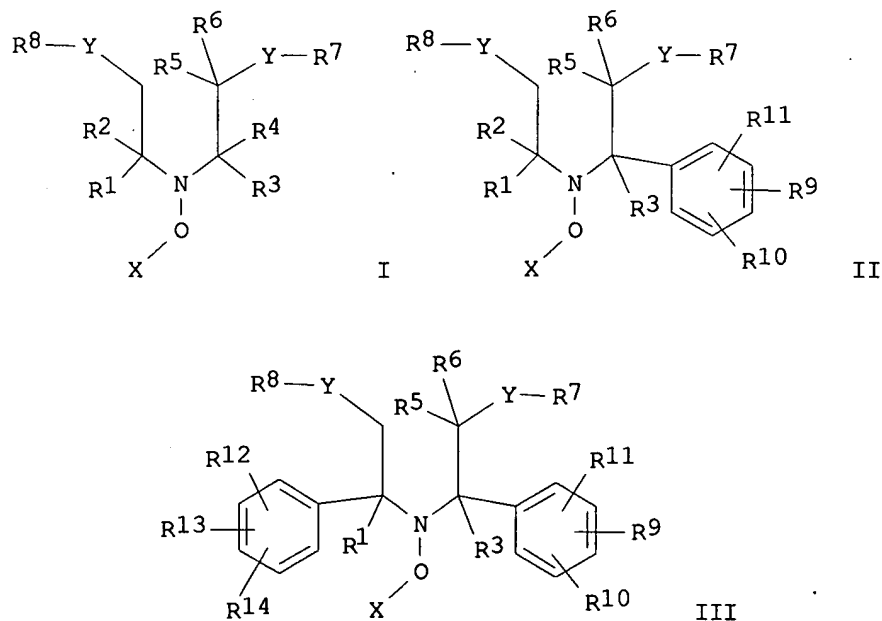
ACCESSION NUMBER: 2003:719523 CAPLUS

DOCUMENT NUMBER: 139:246324

TITLE: Open-chain alkoxyamines and their corresponding nitroxides for controlled low-temperature radical polymerization

INVENTOR(S): Hintermann, Tobias; Nesvadba, Peter; Kramer, Andreas;
Fink, Jochen
PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE: PCT Int. Appl., 59 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003074572	A1	20030912	WO 2003-EP1895	20030225
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2477728	A1	20030912	CA 2003-2477728	20030225
AU 2003212272	A1	20030916	AU 2003-212272	20030225
EP 1481012	A1	20041201	EP 2003-708135	20030225
EP 1481012	B1	20060517		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005124814	A1	20050609	US 2003-506700	20030225
JP 2005519121	T	20050630	JP 2003-573037	20030225
CN 1639201	A	20050713	CN 2003-805021	20030225
AT 326487	T	20060615	AT 2003-708135	20030225
PRIORITY APPLN. INFO.:			EP 2002-405168	A 20020305
			WO 2003-EP1895	W 20030225
OTHER SOURCE(S):	MARPAT 139:246324			
GI				



AB Alkoxyamines I, II, and III [Y = O or NR; R = H or C1-18 alkyl; R7 and(or) R8 with R and N to which they are bonded form 5-6-membered ring; R1-3 = organic; R4 = C2-12 alkyl; R5, R6 = H, C1-18 alkyl, C2-18 alkenyl, benzyl, C5-12 cycloalkyl, or Ph; R7, R8 = H or organic; R9-14 = H, OH, SH, or organic;

X

= organic] are useful for enhancing the polymerization rates and monomer-to-polymer

conversions of ethylenically unsatd. compds. at $\leq 100^\circ$. The intermediate N-oxyl derivs., a composition of the N-oxyl derivs. with ethylenically unsatd. monomers and a free radical initiator X \bullet , as well as a process and their use for polymerization are also subjects of the present invention. I (R1, R2 = Me, R3, R4 = Et, R5-8 = H, X = PhCHMe) was manufactured by adding 13.9 g 3,3-diethyl-5,5-dimethylmorpholin-2-one N-oxyl to THF containing LiAlH4 at 0-10 $^\circ$ and heating 5 h at reflux.

IT 597555-56-1P, 2-[(2-Hydroxy-1,1-dimethylethyl) (1-phenylethoxy)amino]-2-methylpropan-1-ol

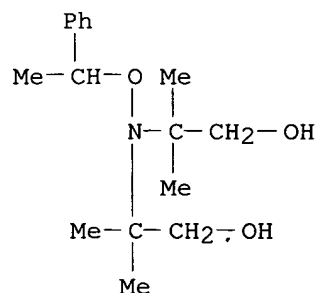
RL: IMF (Industrial manufacture); PREP (Preparation)

(initiator model compound; open-chain hindered alkoxyamines and their corresponding nitroxides for controlled low-temperature radical

polymerization)

RN 597555-56-1 CAPLUS

CN 1-Propanol, 2,2'-[(1-phenylethoxy)imino]bis[2-methyl- (9CI) (CA INDEX NAME)



IT 597555-57-2P, 2-Ethyl-2-[(2-Hydroxy-1,1-dimethylethyl) (1-phenylethoxy)amino]butan-1-ol 597555-58-3P, 2-[(2-Hydroxy-1,1-dimethylethyl) (1-phenylethoxy)amino]-2-propylpentan-1-ol 597555-60-7P, 2-[(2-Hydroxy-1,1-dimethylethyl) (1-phenylethoxy)amino]-2-methylheptan-1-ol 597555-62-9P, 2-[[1-(Hydroxymethyl)cyclohexyl] (1-phenylethoxy)amino]-2-methylpropan-1-ol 597555-63-0P, 2-[[1-(Hydroxymethyl)cycloheptyl] (1-phenylethoxy)amino]-2-methylpropan-1-ol 597555-64-1P, 2-[(2-Hydroxy-1,1-dimethylethyl) (1-phenylethoxy)amino]-2-phenylpropan-1-ol 597555-65-2P, 2-[(2-Hydroxy-1,1-dimethylethyl) (1-phenylethoxy)amino]-2-phenylbutan-1-ol 597555-66-3P 597555-71-0P, 2-[(2-Benzyloxy-1,1-dimethylethyl)-(1-phenylethoxy)amino]-2-phenylpropyl acetate 597555-72-1P, 2-[(2-Benzyloxy-1,1-dimethylethyl)-(1-phenylethoxy)amino]-2-phenylpropan-1-ol 597555-73-2P, 2-[(2-Benzyloxy-1,1-dimethylethyl)-(1-phenylethoxy)amino]-2-phenylbutyl acetate 597555-74-3P, 2-[(2-Benzyloxy-1,1-dimethylethyl)-(1-phenylethoxy)amino]-2-phenylbutan-1-ol 597555-75-4P 597555-76-5P 597555-77-6P 597555-78-7P 597555-79-8P 597555-80-1P 597555-81-2P 597555-82-3P 597555-83-4P, N-(2-Benzyloxy-1,1-dimethylethyl)-N-(2-benzyloxy-1-methyl-1-phenylethyl)-O-(1-phenylethyl)hydroxylamine 597555-84-5P

RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation);

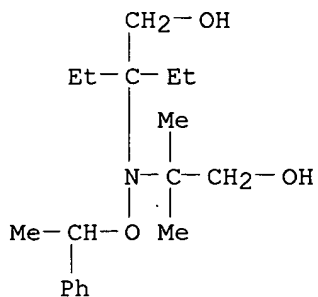
USES (Uses)

(open-chain hindered alkoxyamines and their corresponding nitroxides

for controlled low-temperature radical polymerization)

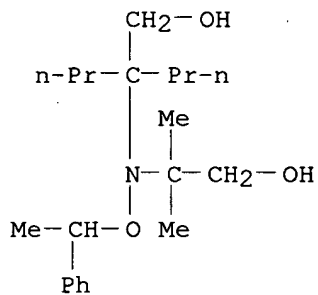
RN 597555-57-2 CAPLUS

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(9CI) (CA INDEX NAME)



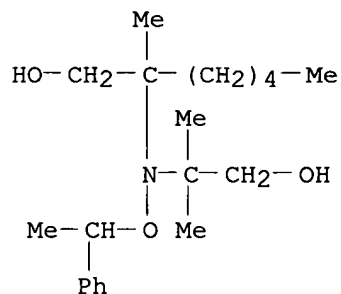
RN 597555-58-3 CAPLUS

CN 1-Pentanol, 2-[(2-hydroxy-1,1-dimethylethyl)(1-phenylethoxy)amino]-2-
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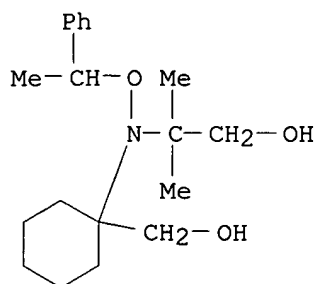
RN 597555-60-7 CAPLUS

CN 1-Heptanol, 2-[(2-hydroxy-1,1-dimethylethyl)(1-phenylethoxy)amino]-2-
methyl- (9CI) (CA INDEX NAME)



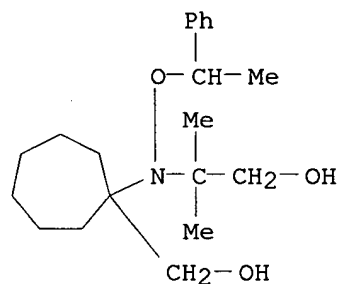
RN 597555-62-9 CAPLUS

CN Cyclohexanemethanol, 1-[(2-hydroxy-1,1-dimethylethyl)(1-
phenylethoxy)amino]- (9CI) (CA INDEX NAME)



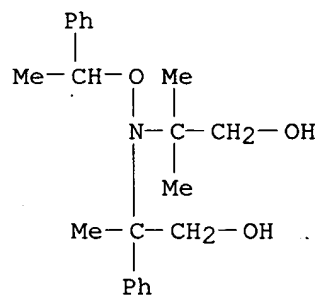
RN 597555-63-0 CAPLUS

CN Cycloheptanemethanol, 1-[(2-hydroxy-1,1-dimethylethyl)(1-phenylethoxy)amino]- (9CI) (CA INDEX NAME)



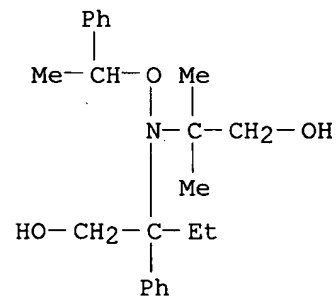
RN 597555-64-1 CAPLUS

CN Benzeneethanol, β -[(2-hydroxy-1,1-dimethylethyl)(1-phenylethoxy)amino]- β -methyl- (9CI) (CA INDEX NAME)



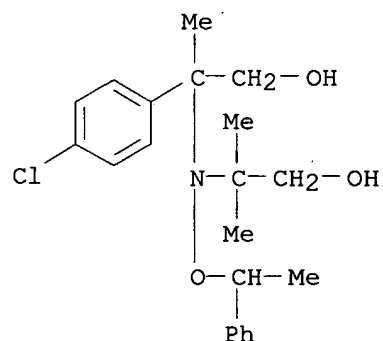
RN 597555-65-2 CAPLUS

CN Benzeneethanol, β -ethyl- β -[(2-hydroxy-1,1-dimethylethyl)(1-phenylethoxy)amino]- (9CI) (CA INDEX NAME)



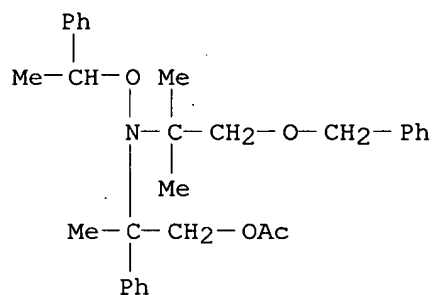
RN 597555-66-3 CAPLUS

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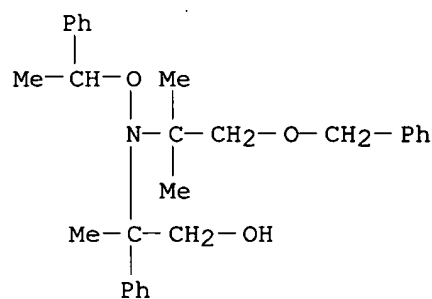
RN 597555-71-0 CAPLUS

CN Benzeneethanol, β -[[1,1-dimethyl-2-(phenylmethoxy)ethyl](1-phenylethoxy)amino]- β -methyl-, acetate (ester) (9CI) (CA INDEX NAME)



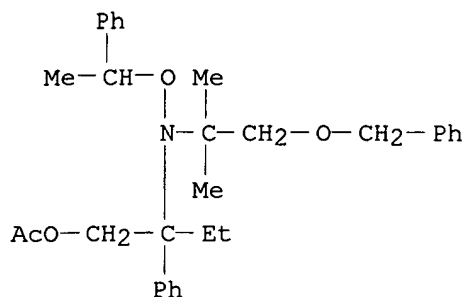
RN 597555-72-1 CAPLUS

CN Benzeneethanol, β -[[1,1-dimethyl-2-(phenylmethoxy)ethyl](1-phenylethoxy)amino]- β -methyl- (9CI) (CA INDEX NAME)



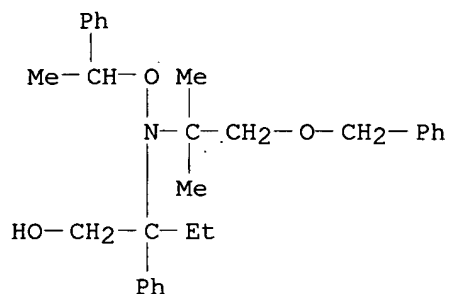
RN 597555-73-2 CAPLUS

CN Benzeneethanol, β -[[1,1-dimethyl-2-(phenylmethoxy)ethyl](1-phenylethoxy)amino]- β -ethyl-, acetate (ester) (9CI) (CA INDEX NAME)



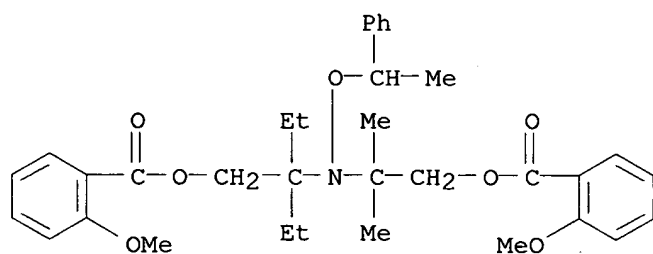
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CN Benzeneethanol, β -[[1,1-dimethyl-2-(phenylmethoxy)ethyl](1-phenylethoxy)amino]- β -ethyl- (9CI) (CA INDEX NAME)



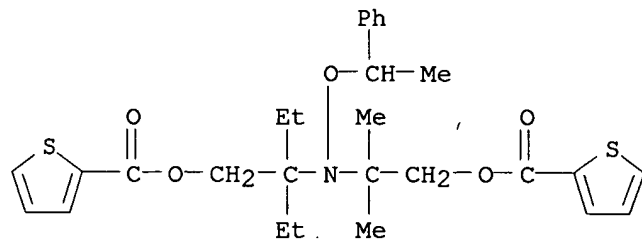
RN 597555-75-4 CAPLUS

CN Benzoic acid, 2-methoxy-, 2-ethyl-2-[[2-[(2-methoxybenzoyl)oxy]-1,1-dimethylethyl](1-phenylethoxy)amino]butyl ester (9CI) (CA INDEX NAME)



RN 597555-76-5 CAPLUS

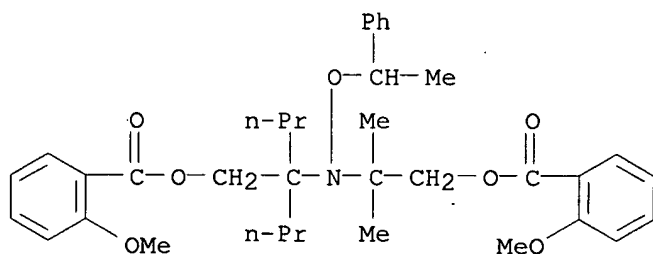
CN 2-Thiophenecarboxylic acid, 2-[[1,1-dimethyl-2-[(2-thienylcarbonyl)oxy]ethyl](1-phenylethoxy)amino]-2-ethylbutyl ester (9CI) (CA INDEX NAME)



RN 597555-77-6 CAPLUS

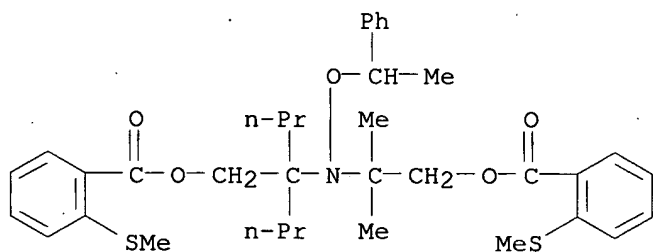
CN Benzoic acid, 2-methoxy-, 2-[[2-[(2-methoxybenzoyl)oxy]-1,1-

dimethylethyl] (1-phenylethoxy) amino]-2-propylpentyl ester (9CI) (CA INDEX NAME)



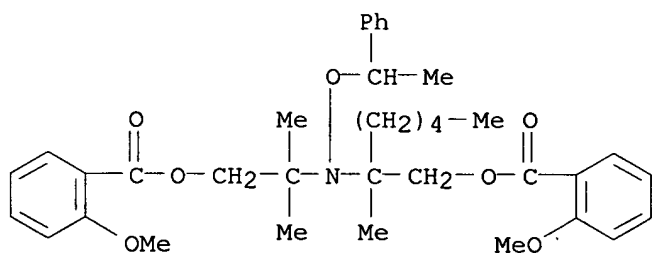
RN 597555-78-7 CAPLUS

CN Benzoic acid, 2-(methylthio)-, 2-[[1,1-dimethyl-2-[[2-(methylthio)benzoyl]oxy]ethyl] (1-phenylethoxy) amino]-2-propylpentyl ester (9CI) (CA INDEX NAME)



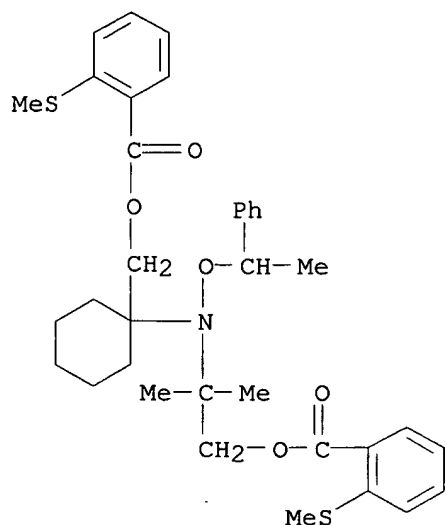
RN 597555-79-8 CAPLUS

CN Benzoic acid, 2-methoxy-, 2-[[2-[[2-methoxybenzoyl]oxy]-1,1-dimethylethyl] (1-phenylethoxy) amino]-2-methylheptyl ester (9CI) (CA INDEX NAME)



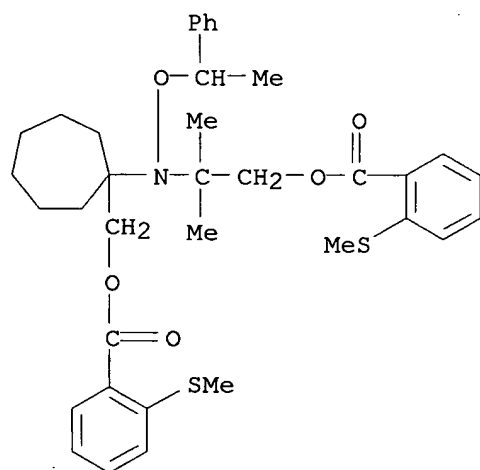
RN 597555-80-1 CAPLUS

CN Benzoic acid, 2-(methylthio)-, [1-[[1,1-dimethyl-2-[[2-(methylthio)benzoyl]oxy]ethyl] (1-phenylethoxy) amino]cyclohexyl]methyl ester (9CI) (CA INDEX NAME)



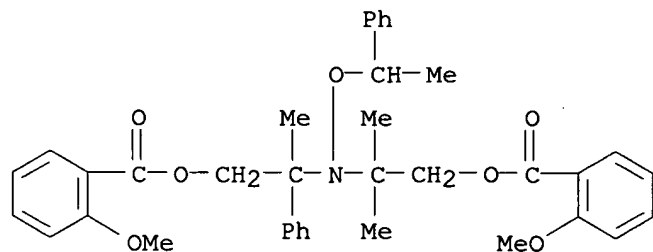
RN 597555-81-2 CAPLUS

CN Benzoic acid, 2-(methylthio)-, [1-[[[1,1-dimethyl-2-[[2-(methylthio)benzoyl]oxy]ethyl](1-phenylethoxy)amino]cycloheptyl]methyl ester (9CI) (CA INDEX NAME)



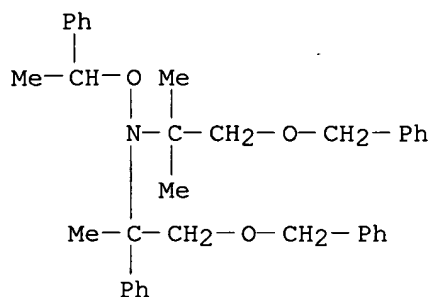
RN 597555-82-3 CAPLUS

CN Benzoic acid, 2-methoxy-, 2-[[[2-[[2-(2-methoxybenzoyl)oxy]-1,1-dimethylethyl](1-phenylethoxy)amino]-2-phenylpropyl ester (9CI) (CA INDEX NAME)



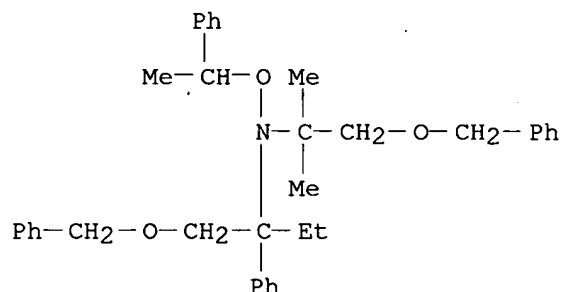
RN 597555-83-4 CAPLUS

CN Benzenemethanamine, N-[1,1-dimethyl-2-(phenylmethoxy)ethyl]- α -methyl-
N-(1-phenylethoxy)- α -[(phenylmethoxy)methyl]- (9CI) (CA INDEX NAME)



RN 597555-84-5 CAPLUS

CN Benzenemethanamine, N-[1,1-dimethyl-2-(phenylmethoxy)ethyl]- α -ethyl-
N-(1-phenylethoxy)- α -[(phenylmethoxy)methyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:117020 CAPLUS

DOCUMENT NUMBER: 132:152323

TITLE: Open chain alkoxyamine compounds and their use as
polymerization regulators

INVENTOR(S): Nesvadba, Peter; Kramer, Andreas; Zink, Marie-odile;
Lazzari, Dario

PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.

SOURCE: PCT Int. Appl., 47 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

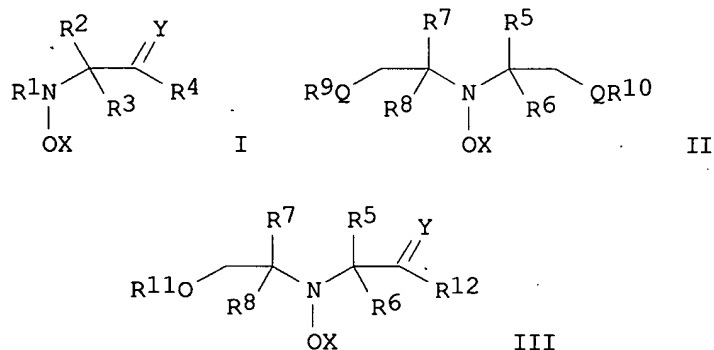
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000007981	A1	20000217	WO 1999-EP5377	19990727
<p>W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM</p> <p>RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG</p>				

CA 2337482	A1	20000217	CA 1999-2337482	19990727
AU 9953719	A1	20000228	AU 1999-53719	19990727
AU 759817	B2	20030501		
EP 1100772	A1	20010523	EP 1999-939409	19990727
EP 1100772	B1	20040414		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002522415	T	20020723	JP 2000-563616	19990727
US 6518326	B1	20030211	US 2001-744731	20010129
US 2003125489	A1	20030703	US 2002-298977	20021118
US 6841703	B2	20050111		
PRIORITY APPLN. INFO.:			EP 1998-810741	A 19980731
			WO 1999-EP5377	W 19990727
			US 2001-744731	A3 20010129
OTHER SOURCE(S):			MARPAT 132:152323	
GI				

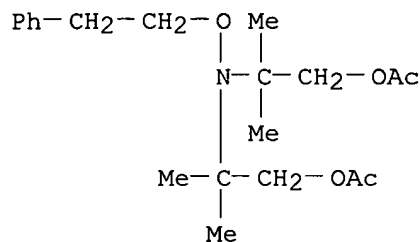


AB The invention relates to a compound of formula I, II or III (Y = O, CH₂; Q = O, amino; R₁ = alkyl, Ph, OH, ester, etc.; R₂, R₃ = alkyl, benzyl, Ph, etc. or form a ring; R₄ = OH, O-containing group, amino, etc.; R₅-8 = alkyl, cycloalkyl, Ph, etc.; R₉-10 = H, formyl, benzoyl, alkyl, etc.; R₁₁ = formyl, alkylcarbonyl, benzoyl, alkyl, etc.; X = C-containing group). The open chain alkoxyamine compds. are useful for the polymerization of ethylenically unsatd. monomers. The compds. of the present invention provide polymeric resin products having low polydispersity. The polymerization process proceeds with enhanced monomer to polymer conversion efficiency. In particular, this invention relates to stable free radical-mediated polymerization processes which provide homopolymers, random copolymers, block copolymers, multiblock copolymers, graft copolymers and the like, at enhanced rates of polymerization and enhanced monomer to polymer conversions. N-(cyanoisopropoxy)-tert-butyl-(dimethyl-methylaminocarbonyl-methyl)-amine was prepared and used to prepare poly(Bu acrylate) with a polydispersity of 1.8.

IT 258289-34-8P 258289-36-0P
 RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation);
 USES (Uses)
 (open chain alkoxyamine compds. and their use as polymerization regulators)

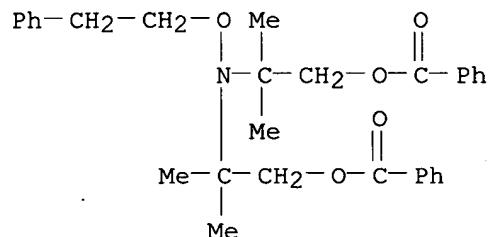
RN 258289-34-8 CAPLUS

CN 1-Propanol, 2,2'-[(2-phenylethoxy)imino]bis[2-methyl-, diacetate (ester)
 (9CI) (CA INDEX NAME)



RN 258289-36-0 CAPLUS

CN 1-Propanol, 2,2'-[(2-phenylethoxy)imino]bis[2-methyl-, dibenzoate (ester)
(9CI) (CA INDEX NAME)



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1958:113344 CAPLUS

DOCUMENT NUMBER: 52:113344

ORIGINAL REFERENCE NO.: 52:19997c-i,19998a-b

TITLE: Properties and reactions of free alkyl radicals in solutions. X. Further studies of tertiary hydroxylamines

AUTHOR(S): Boyd, A. N.; Souther, P. F.; Water, Wm. A.

CORPORATE SOURCE: Dysons Perrins Lab., Oxford, UK

SOURCE: Journal of the Chemical Society (1958) 2056-8

CODEN: JCSOA9; ISSN: 0368-1769

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

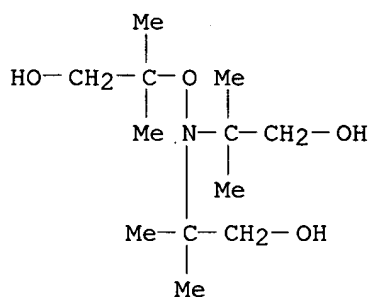
AB cf. C.A. 52, 3677i. It is shown that the addition of 2-methoxy-carbonyl-2-propyl radicals to nitric oxide occurs in stages, for the intermediate α -nitrosoisobutyrate can be removed by distillation and converted with NO₂ into Me α -nitroisobutyrate (loc. cit.). Alkaline hydrolysis of O,N-bis(2-methoxycarbonyl-2-propyl)-N-phenylhydroxylamine (I) yields the corresponding dibasic acid (II). II is easily converted into a stable anhydride that must contain a 7-membered ring. 1,1'-Azobis-1-cyanocyclohexane (9 g.) in 100 ml. dry PhMe refluxed 7 hrs. with passage of NO₂, the PhMe removed, and the product separated through Al₂O₃ gave 1.1 g. 1,1'-dicyanobicyclohexyl, m. 222°, and 4.6 g. O,N,N-tris(1-cyanocyclohexyl)hydroxylamine (III), m. 144° (MeOH). Hydrolysis of III with dilute NaOH gave a little cyclohexanone (2,4-dinitrophenylhydrazine, m. 154°); cold concentrated HCl did not effect hydrolysis. NO₂ diluted with N was passed during 6 hrs. into a refluxing solution of 13.8 g. dimethyl α,α' -azoisobutyrate (IIIa) in 150 ml. C₆H₆, the solution flushed with N, and the C₆H₆ removed, the residue in ligroine giving O,N,N-tris(methoxycarbonyl-2-propyl)hydroxylamine (IV), m. 55°. In a similar experiment with less solvent, volatile materials were distilled as the reaction proceeded, while fresh C₆H₆ was added dropwise at a corresponding rate; the green distillate was warmed with NO₂, C₆H₆ removed, and the residue distilled to give 2 g. Me α -nitroisobutyrate, b₁₉ 85-95°. Alkaline hydrolysis of IV caused extensive decomposition

Reduction in Et₂O with LiAlH₄ gave 72% O,N,N-tris(2-hydroxy-1,1-dimethylethyl)hydroxylamine, m. 74° (ligroine); this was sufficiently basic to dissolve in dilute mineral acid. PhNO and IIIa gave 66% I, m. 69° (ligroine). Reaction in C₆H₆ gave a much lower yield, while use of refluxing xylene led to decomposition of PhNO. The isomeric chloronitrosobenzenes decomposed too quickly in refluxing PhMe for an effective reaction with 2-methoxycarbonyl-2-propyl free radicals; small amts. of nitro- and azoxybenzene compds. were isolated. Alkaline hydrolysis of I gave II, m. 154° (decomposition), when heated rapidly, but when heated slowly decomposed at 129-30°. II evolved CO when heated with concentrated H₂SO₄. With refluxing Ac₂O II gave the cyclic anhydride, m. 135° (MeOH), v 1760 and 1800 cm.⁻¹ The anhydride was easily hydrolyzed to II by treatment with aqueous NaOH; it condensed with resorcinol to an alkali-soluble product having a green fluorescence. A monoamide, m. 141°, of II was obtained by treating the anhydride in dioxane with NH₃. Hydrolysis of O,N-bis(2-cyano-2-propyl)-N-phenylhydroxylamine with 6% NaOH in aqueous alc. gave a cyanoamide, m. 220-1° (decomposition), whose infrared spectrum showed absorption due to the carbamoyl but not that due to the CN group, and is probably N-(2-carbamoyl-2-propyl)-O-(2-cyano-2-propyl)-N-phenylhydroxylamine. Reduction of 2.1 g. I with 8 g. Na and 50 ml. alc. gave an alkaline solution from which a little PhNH₂ could be extracted

Acidification

gave besides II, 20 mg. α-hydroxyisobutyric acid, m. 77°. Reduction of the above ester (3 g.) with 0.75 g. LiAlH₄ in 50 ml. Et₂O followed by treatment with alkali gave 2 g. O,N-bis(2-hydroxy-1,1-dimethylethyl)-N-phenylhydroxylamine (IV), m. 69° (ligroine); diphenylurethan, m. 130°. Hydrolysis of 2 g. IV in refluxing 2N HCl under N gave a little Me₂CHCHO (dinitrophenylhydrazones, m. 178°) and, after benzylation, benzanilide (0.19 g.) and 0.49 g. of a product, m. 72°, which, from infrared spectrum, appears to be N-(2-benzoyloxy-1,1-dimethylethyl)-p-chloroaniline, λ 2.96, 5.86, 7.78, 8.95, 7.18, 7.29, and 12.30 μ. All the trisubstituted hydroxylamines described show distinct infrared absorptions in the same 8 wave bands: 7.6-7.9; 8.25-8.5; 8.6-8.7; 9.35; 9.5-9.95; 10.1-10.3; 10.8-10.9; and 11.1-11.9 μ.

IT 112274-94-9P, Hydroxylamine, tris(2-hydroxy-1,1-dimethylethyl)-
 RL: PREP (Preparation)
 (preparation of)
 RN 112274-94-9 CAPLUS
 CN 1-Propanol, 2,2',2''-(nitriloxy)tris[2-methyl- (6CI) (CA INDEX NAME)



=> s hintermann/au or nesvadba/au or kramer/au or fink/au

0 HINTERMANN/AU

0 NESVADBA/AU

3 KRAMER/AU

6 FINK/AU

L5 9 HINTERMANN/AU OR NESVADBA/AU OR KRAMER/AU OR FINK/AU

=> s Hintermann, Tobias/au or Nesvadba, Peter/au or Kramer, Andreas/au or Fink, Jochen/au

24 HINTERMANN, TOBIAS/AU
82 NESVADBA, PETER/AU
111 KRAMER, ANDREAS/AU
14 FINK, JOCHEN/AU

L6 199 HINTERMANN, TOBIAS/AU OR NESVADBA, PETER/AU OR KRAMER, ANDREAS/AU OR FINK, JOCHEN/AU

=> s 16 and polymerization

344120 POLYMERIZATION

L7 44 L6 AND POLYMERIZATION

=> s 17 and alkoxyamines

457 ALKOXYAMINES

L8 14 L7 AND ALKOXYAMINES

=> s 17 and nitroxides

3886 NITROXIDES

L9 9 L7 AND NITROXIDES

=> s 19 or 18

L10 19 L9 OR L8

=> s 110 not PY > 2004

2882076 PY > 2004

L11 6 L10 NOT PY > 2004

=> d 111 ibib abs 1-

YOU HAVE REQUESTED DATA FROM 6 ANSWERS - CONTINUE? Y/(N):y

L11 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:608767 CAPLUS

DOCUMENT NUMBER: 141:277937

TITLE: Synthesis of new open-chain alkoxyamines and their evaluation for nitroxide-mediated radical polymerization

AUTHOR(S): Nesvadba, Peter; Bugnon, Lucienne; Sift, Rosemarie

CORPORATE SOURCE: Ciba Specialty Chemicals Inc, Basel, CH-4002, Switz.

SOURCE: Polymer International (2004), 53(8), 1066-1070

CODEN: PLYIEI; ISSN: 0959-8103

PUBLISHER: John Wiley & Sons Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB New readily available open-chain alkoxyamines have been synthesized and evaluated as unimol. initiators for nitroxide-mediated radical polymerization of styrene and Bu acrylate. The observed moderate control of polymerization is explained by the low thermostability of the parent nitroxide.

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:535765 CAPLUS

DOCUMENT NUMBER: 141:207557

TITLE: New 7-membered diazepanone alkoxyamines for nitroxide-mediated radical polymerization

AUTHOR(S): Nesvadba, Peter; Bugnon, Lucienne; Sift, Rosemarie

CORPORATE SOURCE: Ciba Specialty Chemicals Incorporated, Basel, CH-4002, Switz.

SOURCE: Journal of Polymer Science, Part A: Polymer Chemistry

(2004), 42(13), 3332-3341
CODEN: JPACEC; ISSN: 0887-624X

PUBLISHER: John Wiley & Sons, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The synthesis of new 7-membered diazepanone alkoxyamines [2,2,7,7-tetramethyl-1-(1-phenyl-ethoxy)-[1,4]diazepan-5-one (3) and 2,7-diethyl-2,3,7-trimethyl-1-(1-phenyl-ethoxy)-[1,4]diazepan-5-one (8)] through the Beckmann rearrangement of piperidin-4-one alkoxyamines was developed. Both 3 and 8 were evaluated as initiators and regulators for the nitroxide-mediated radical polymerization of styrene and Bu acrylate.

8, A sterically highly hindered alkoxyamine readily available as a crystalline solid, allowed the fast and controlled polymerization and preparation of polymers with

low polydispersity indexes (1.2-1.4) up to a d.p. of about 100.

REFERENCE COUNT: 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:778794 CAPLUS

TITLE: Novel high-performance nitroxides for controlled low-temperature radical polymerization

AUTHOR(S): Hintermann, Tobias; Kramer, Andreas
; Nesvadba, Peter; Fink, Jochen

CORPORATE SOURCE: Ciba Specialty Chemicals Inc, CH-4002 Basel, Switz.

SOURCE: Abstracts of Papers, 224th ACS National Meeting, Boston, MA, United States, August 18-22, 2002 (2002), POLY-629. American Chemical Society: Washington, D. C.

CODEN: 69CZPZ

DOCUMENT TYPE: Conference; Meeting Abstract

LANGUAGE: English

AB The nitroxide mediated controlled radical polymerization (NMP) has received a lot

of attention in recent years. The technol. has been strongly improved and now the synthesis of well defined homo- and block-copolymers, as well as even more complex architectures, from a broad range of unsatd. monomers is feasible. It is today very close that com. polymers are produced via this technol. However, the NMP still has a major drawback: relatively high temps. (120 - 145 °C) are usually required for an efficient polymerization. By careful investigation of the structure-activity relationship of bis-tertiary carbon substituted nitroxyls, we were able to design tailor-made new classes of nitroxyl-ethers, which allow the efficient polymerization and synthesis of block-copolymers of styrene and (meth)acrylates at low temps. (80-100 °C). As a consequence of this development, it is possible to perform NMP in aqueous systems without using pressure reaction vessels.

L11 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:624950 CAPLUS

DOCUMENT NUMBER: 137:353404

TITLE: Novel high performance nitroxides for controlled low temperature radical polymerization

AUTHOR(S): Hintermann, Tobias; Kramer, Andreas
; Nesvadba, Peter; Fink, Jochen

CORPORATE SOURCE: Coating Effects Res., Ciba Specialty Chemicals Inc., Basel, CH-4002, Switz.

SOURCE: Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (2002), 43(2), 86-87
CODEN: ACPPAY; ISSN: 0032-3934

PUBLISHER: American Chemical Society, Division of Polymer Chemistry
DOCUMENT TYPE: Journal; (computer optical disk)
LANGUAGE: English
AB The nitroxide-mediated controlled radical polymerization (NMP) has received a lot

of attention in recent years. The technol. was strongly improved and now the synthesis of well defined homo- and block-copolymers, as well as even more complex architectures, from a broad range of unsatd. monomers is feasible. It is today very close that com. polymers are produced via this technol. However, the NMP still has a major drawback: relatively high temps. (120 - 145°) are usually required for an efficient polymerization. By careful investigation of the structure-activity relationship of bis-tertiary carbon substituted nitroxyls, we were able to design tailor-made new classes of nitroxyl-ethers, which allow the efficient polymerization and synthesis of block-copolymers of styrene and (meth)acrylates at low temps. (80-100°). As a consequence of this development, it is possible to perform NMP in aqueous systems without using pressure reaction vessels.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:653203 CAPLUS

DOCUMENT NUMBER: 133:350565

TITLE: New Alkoxyamines from the Addition of Free Radicals to Nitrones or Nitroso Compounds as Initiators for Living Free Radical Polymerization

AUTHOR(S): Zink, Marie-Odile; Kramer, Andreas; Nesvadba, Peter

CORPORATE SOURCE: Ciba Specialty Chemicals Inc., Basel, CH-4002, Switz.
SOURCE: Macromolecules (2000), 33(21), 8106-8108

CODEN: MAMOBX; ISSN: 0024-9297

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The reaction of nitrone or nitroso compound with free radicals generated by thermal decomposition of azoinitiators was used to prepare the new alkoxyamines. These are active initiators for the rapid polymerization of styrene, affording a high yield of polystyrene with low polydispersity. In contrast, for Bu acrylate, only polymers with large polydispersity were obtained.

REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:254148 CAPLUS

DOCUMENT NUMBER: 132:294136

TITLE: Heterocyclic O-substituted amine oxides as regulators in controlled radical polymerization

INVENTOR(S): Nesvadba, Peter; Kramer, Andreas; Zink, Marie-odile

PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE: Ger. Offen., 64 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

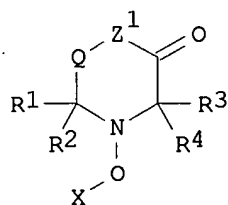
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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DE 19949352	A1	20000420	DE 1999-19949352	19991013
TW 225483	B	20041221	TW 1999-88115002	19990830
MX 9909004	A	20000531	MX 1999-9004	19991001
SE 9903593	A	20000417	SE 1999-3593	19991006
SE 522619	C2	20040224		
GB 2342649	A	20000419	GB 1999-23579	19991006
GB 2342649	B	20010718		
NL 1013259	A1	20000418	NL 1999-1013259	19991011
NL 1013259	C2	20001121		
AU 9953617	A1	20000420	AU 1999-53617	19991012
AU 769061	B2	20040115		
BE 1012727	A5	20010206	BE 1999-673	19991012
IT 99MI2125	A1	20010412	IT 1999-MI2125	19991012
DK 9901463	A	20000417	DK 1999-1463	19991013
CA 2286375	A1	20000416	CA 1999-2286375	19991014
FR 2784684	A1	20000421	FR 1999-12810	19991014
FR 2784684	B1	20010126		
KR 2000029079	A	20000525	KR 1999-44561	19991014
US 6479608	B1	20021112	US 1999-417538	19991014
ES 2178908	A1	20030101	ES 1999-2254	19991014
ES 2178908	B1	20040401		
JP 2000128869	A	20000509	JP 1999-293697	19991015
CN 1253954	A	20000524	CN 1999-121390	19991015
BR 9904685	A	20001128	BR 1999-4685	19991015
US 2003125494	A1	20030703	US 2002-191193	20020709
US 6664353	B2	20031216		

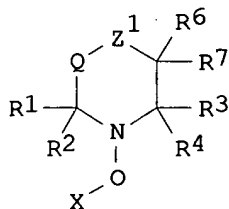
PRIORITY APPLN. INFO.:

EP 1998-811030	A	19981016
US 1999-417538	A3	19991014

OTHER SOURCE(S): MARPAT 132:294136
GI



I



II

AB Alkoxyamines I and II [R1-7 = organic radical, Q = direct bond, substituted hydrocarbylene, C(O), or CR9R10C(O), R9, R10 = H, Ph, or C1-18 alkyl, Z1 = O or NR8, R8 = H, OH, or organic group, X = group containing ≥ 1 C atom which forms a free radical for initiation of polymerization of ethylenically unsatd. monomers] are useful as regulators for controlling the mol. weight in free-radical polymerization 1-(1-Cyanocyclohexyloxy)-2,5-dicyclohexylideneimidazolidin-4-one was manufactured by reaction of 1.2 g 2,5-dicyclohexylideneimidazolidin-4-one with 1.25 g 1,1'-azobis(cyclohexanecarbonitrile) 16 h in C6H6 at reflux.

=> d his

(FILE 'HOME' ENTERED AT 15:35:39 ON 23 MAR 2007)

FILE 'REGISTRY' ENTERED AT 15:35:49 ON 23 MAR 2007

L1 STRUCTURE UPLOADED
L2 2 S L1
L3 26 S L2 FULL

FILE 'CAPLUS' ENTERED AT 15:37:03 ON 23 MAR 2007

L4 3 S L3
L5 9 S HINTERMANN/AU OR NESVADBA/AU OR KRAMER/AU OR FINK/AU
L6 199 S HINTERMANN, TOBIAS/AU OR NESVADBA, PETER/AU OR KRAMER, ANDREA
L7 44 S L6 AND POLYMERIZATION
L8 14 S L7 AND ALKOXYAMINES
L9 9 S L7 AND NITROXIDES
L10 19 S L9 OR L8
L11 6 S L10 NOT PY > 2004

=> d his full

(FILE 'HOME' ENTERED AT 15:35:39 ON 23 MAR 2007)

FILE 'REGISTRY' ENTERED AT 15:35:49 ON 23 MAR 2007

L1 STRUCTURE UPLOADED
D L1
L2 2 SEA SSS SAM L1
L3 26 SEA SSS FUL L1

FILE 'CAPLUS' ENTERED AT 15:37:03 ON 23 MAR 2007

L4 3 SEA L3
D L4 IBIB ABS HITSTR 1-
L5 9 SEA HINTERMANN/AU OR NESVADBA/AU OR KRAMER/AU OR FINK/AU
L6 199 SEA HINTERMANN, TOBIAS/AU OR NESVADBA, PETER/AU OR KRAMER,
ANDREAS/AU OR FINK, JOCHEN/AU
L7 44 SEA L6 AND POLYMERIZATION
L8 14 SEA L7 AND ALKOXYAMINES
L9 9 SEA L7 AND NITROXIDES
L10 19 SEA L9 OR L8
L11 6 SEA L10 NOT PY > 2004
D L11 IBIB ABS 1-

FILE HOME

FILE REGISTRY

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DICTIONARY FILE UPDATES: 22 MAR 2007 HIGHEST RN 927959-98-6

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FILE CAPLUS

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NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	DEC 18	CA/CAPLUS pre-1967 chemical substance index entries enhanced with preparation role
NEWS	4	DEC 18	CA/CAPLUS patent kind codes updated
NEWS	5	DEC 18	MARPAT to CA/CAPLUS accession number crossover limit increased to 50,000
NEWS	6	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS	7	DEC 27	CA/CAPLUS enhanced with more pre-1907 records
NEWS	8	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS	9	JAN 16	CA/CAPLUS Company Name Thesaurus enhanced and reloaded
NEWS	10	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS	11	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS	12	JAN 22	CA/CAPLUS updated with revised CAS roles
NEWS	13	JAN 22	CA/CAPLUS enhanced with patent applications from India
NEWS	14	JAN 29	PHAR reloaded with new search and display fields
NEWS	15	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS	16	FEB 15	PATDPASPC enhanced with Drug Approval numbers
NEWS	17	FEB 15	RUSSIAPAT enhanced with pre-1994 records
NEWS	18	FEB 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS	19	FEB 26	MEDLINE reloaded with enhancements
NEWS	20	FEB 26	EMBASE enhanced with Clinical Trial Number field
NEWS	21	FEB 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS	22	FEB 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS	23	FEB 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS	24	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS	25	MAR 16	CASREACT coverage extended
NEWS	26	MAR 20	MARPAT now updated daily
NEWS	27	MAR 22	LWPI reloaded
NEWS EXPRESS			NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
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=> file reg

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SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

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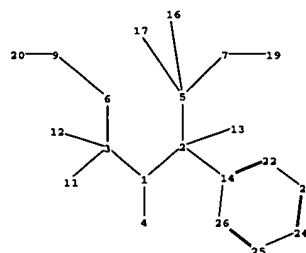
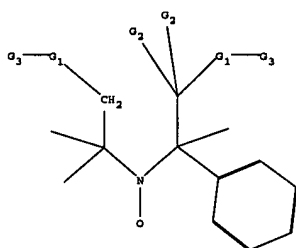
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L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



chain nodes :

1 4 5 6 7 9 16 17 19 20

ring nodes :

14 22 23 24 25 26

ring/chain nodes :

2 3 11 12 13

chain bonds :

1-2 1-3 1-4 2-5 3-6 5-7 5-16 5-17 6-9 7-19 9-20

ring/chain bonds :

2-13 2-14 3-11 3-12

ring bonds :

14-22 14-26 22-23 23-24 24-25 25-26

exact/norm bonds :

1-2 1-3 1-4 2-13 2-14 3-11 3-12 5-7 5-16 5-17 6-9 7-19 9-20

exact bonds :

2-5 3-6

normalized bonds :

14-22 14-26 22-23 23-24 24-25 25-26

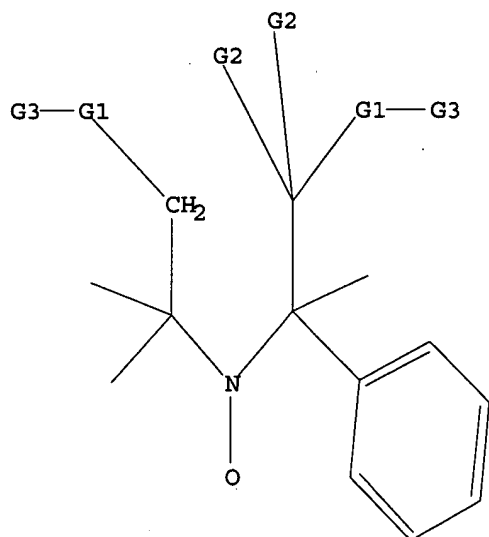
G1:O,N

G2:Cb,Ak,H

G3:C,H

Match level :

1:CLASS2:CLASS3:CLASS4:CLASS5:CLASS6:CLASS7:CLASS9:CLASS11:CLASS12:CLASS13:CLASS
14:CLASS16:CLASS17:CLASS19:CLASS20:CLASS22:Atom 23:Atom 24:Atom 25:Atom 26:Atom



G1 O,N
G2 Cb,Ak,H
G3 C,H

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 16:40:44 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 8 TO ITERATE

100.0% PROCESSED 8 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 8 TO 329
PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 16:40:49 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 237 TO ITERATE

100.0% PROCESSED 237 ITERATIONS 12 ANSWERS
SEARCH TIME: 00.00.01

L3 12 SEA SSS FUL L1

=> file caplus

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FULL ESTIMATED COST	172.10	172.31

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=> s 13

L4 1 L3

=> d 14 ibib abs hitstr 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:719523 CAPLUS

DOCUMENT NUMBER: 139:246324

TITLE: Open-chain alkoxyamines and their corresponding nitroxides for controlled low-temperature radical polymerization

INVENTOR(S): Hintermann, Tobias; Nesvadba, Peter; Kramer, Andreas; Fink, Jochen

PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.

SOURCE: PCT Int. Appl., 59 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

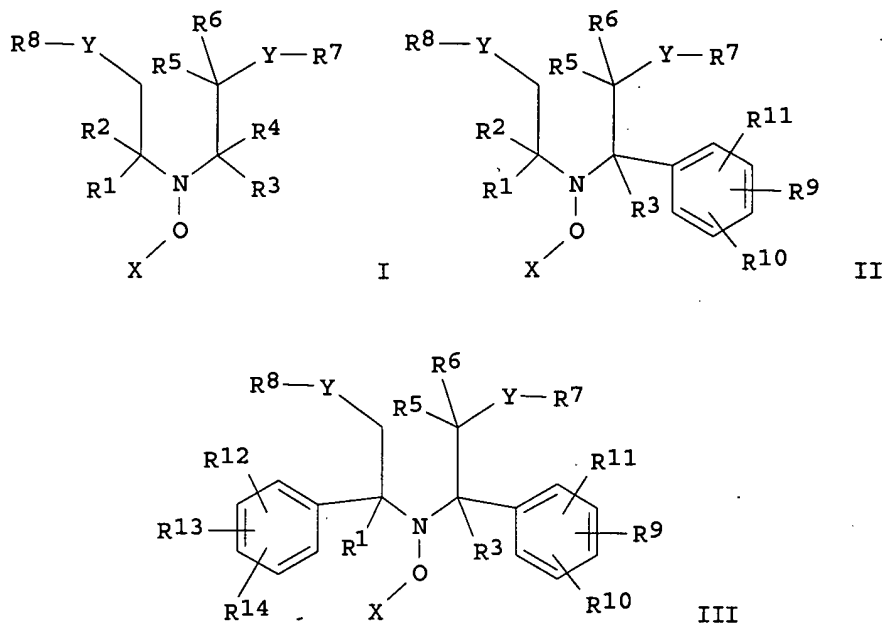
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003074572	A1	20030912	WO 2003-EP1895	20030225
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2477728	A1	20030912	CA 2003-2477728	20030225
AU 2003212272	A1	20030916	AU 2003-212272	20030225
EP 1481012	A1	20041201	EP 2003-708135	20030225
EP 1481012	B1	20060517		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005124814	A1	20050609	US 2003-506700	20030225
JP 2005519121	T	20050630	JP 2003-573037	20030225
CN 1639201	A	20050713	CN 2003-805021	20030225
AT 326487	T	20060615	AT 2003-708135	20030225
PRIORITY APPLN. INFO.:			EP 2002-405168	A 20020305

OTHER SOURCE(S):
GI

MARPAT 139:246324



AB Alkoxyamines I, II, and III [Y = O or NR; R = H or C1-18 alkyl; R7 and(or) R8 with R and N to which they are bonded form 5-6-membered ring; R1-3 = organic; R4 = C2-12 alkyl; R5, R6 = H, C1-18 alkyl, C2-18 alkenyl, benzyl, C5-12 cycloalkyl, or Ph; R7, R8 = H or organic; R9-14 = H, OH, SH, or organic;

X = organic] are useful for enhancing the polymerization rates and monomer-to-polymer

conversions of ethylenically unsatd. compds. at $\leq 100^\circ$. The intermediate N-oxyl derivs., a composition of the N-oxyl derivs. with ethylenically unsatd. monomers and a free radical initiator X^\bullet , as well as a process and their use for polymerization are also subjects of the present invention. I (R1, R2 = Me, R3, R4 = Et, R5-8 = H, X = PhCHMe) was manufactured by adding 13.9 g 3,3-diethyl-5,5-dimethylmorpholin-2-one N-oxyl to THF containing LiAlH₄ at 0-10° and heating 5 h at reflux.

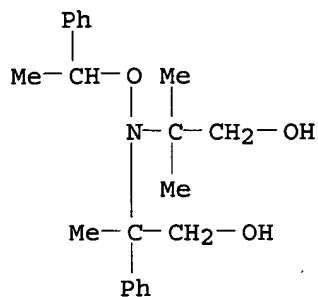
IT 597555-64-1P, 2-[(2-Hydroxy-1,1-dimethylethyl) (1-phenylethoxy) amino]-2-phenylpropan-1-ol 597555-65-2P, 2-[(2-Hydroxy-1,1-dimethylethyl) (1-phenylethoxy) amino]-2-phenylbutan-1-ol 597555-66-3P 597555-69-6P, 2-(2-Benzyloxy-1,1-dimethylethylamino)-2-phenylpropyl acetate N-oxyl 597555-70-9P, 2-(2-Benzyloxy-1,1-dimethylethylamino)-2-phenylbutyl acetate N-oxyl 597555-71-0P, 2-[(2-Benzyloxy-1,1-dimethylethyl) (1-phenylethoxy) amino]-2-phenylpropyl acetate 597555-72-1P, 2-[(2-Benzyloxy-1,1-dimethylethyl) (1-phenylethoxy) amino]-2-phenylpropan-1-ol 597555-73-2P, 2-[(2-Benzyloxy-1,1-dimethylethyl) (1-phenylethoxy) amino]-2-phenylbutyl acetate 597555-74-3P, 2-[(2-Benzyloxy-1,1-dimethylethyl) (1-phenylethoxy) amino]-2-phenylbutan-1-ol 597555-82-3P 597555-83-4P, N-(2-Benzyloxy-1,1-dimethylethyl)-N-(2-benzyloxy-1-methyl-1-phenylethyl)-O-(1-phenylethyl)hydroxylamine 597555-84-5P

RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)

(open-chain hindered alkoxyamines and their corresponding nitroxides for controlled low-temperature radical polymerization)

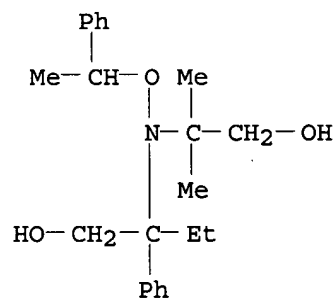
RN 597555-64-1 CAPLUS

CN Benzeneethanol, β -[(2-hydroxy-1,1-dimethylethyl)(1-phenylethoxy)amino]- β -methyl- (9CI) (CA INDEX NAME)



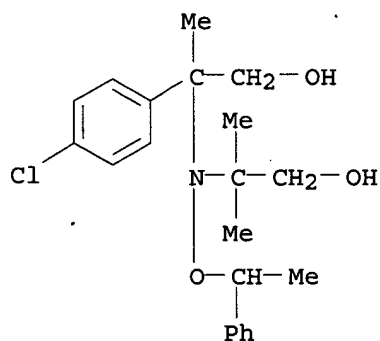
RN 597555-65-2 CAPLUS

CN Benzeneethanol, β -ethyl- β -[(2-hydroxy-1,1-dimethylethyl)(1-phenylethoxy)amino]- (9CI) (CA INDEX NAME)



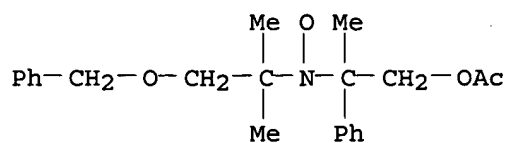
RN 597555-66-3 CAPLUS

CN Benzeneethanol, 4-chloro- β -[(2-hydroxy-1,1-dimethylethyl)(1-phenylethoxy)amino]- β -methyl- (9CI) (CA INDEX NAME)



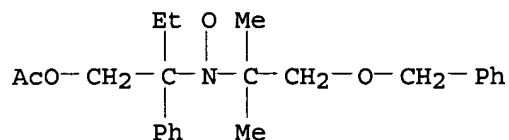
RN 597555-69-6 CAPLUS

CN Nitroxide, 2-(acetyloxy)-1-methyl-1-phenylethyl 1,1-dimethyl-2-(phenylmethoxy)ethyl (9CI) (CA INDEX NAME)



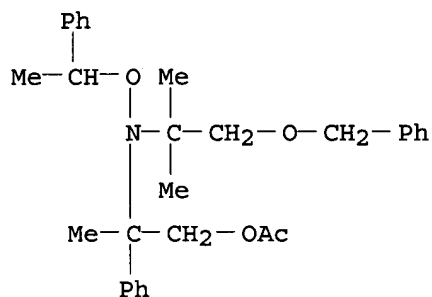
RN 597555-70-9 CAPLUS

CN Nitroxide, 1-[(acetyloxy)methyl]-1-phenylpropyl 1,1-dimethyl-2-(phenylmethoxy)ethyl (9CI) (CA INDEX NAME)



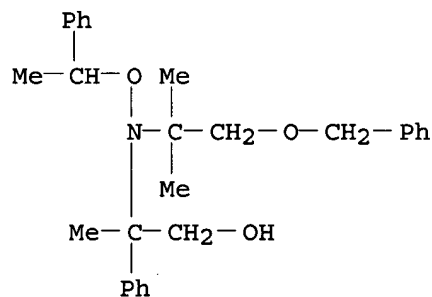
RN 597555-71-0 CAPLUS

CN Benzeneethanol, β -[[1,1-dimethyl-2-(phenylmethoxy)ethyl](1-phenylethoxy)amino]- β -methyl-, acetate (ester) (9CI) (CA INDEX NAME)



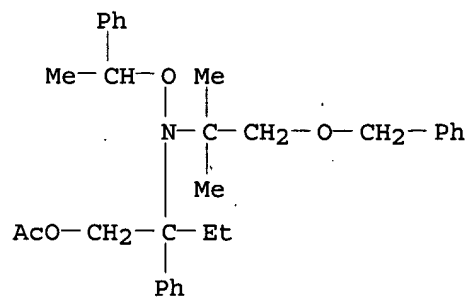
RN 597555-72-1 CAPLUS

CN Benzeneethanol, β -[[1,1-dimethyl-2-(phenylmethoxy)ethyl](1-phenylethoxy)amino]- β -methyl- (9CI) (CA INDEX NAME)



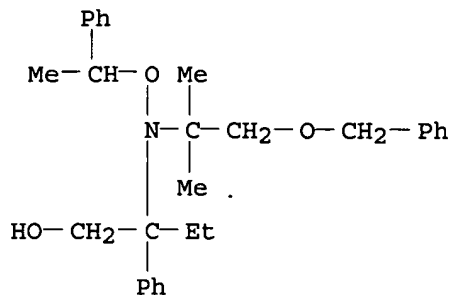
RN 597555-73-2 CAPLUS

CN Benzeneethanol, β -[[1,1-dimethyl-2-(phenylmethoxy)ethyl](1-phenylethoxy)amino]- β -ethyl-, acetate (ester) (9CI) (CA INDEX NAME)



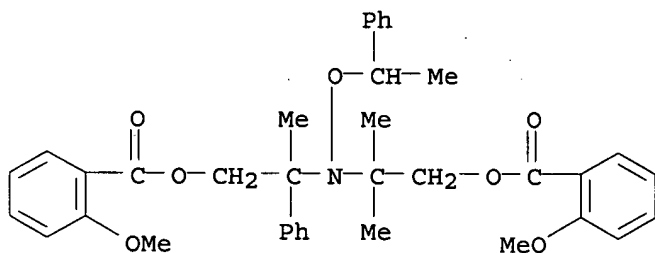
RN 597555-74-3 CAPLUS

CN Benzenethanol, β -[[1,1-dimethyl-2-(phenylmethoxy)ethyl](1-phenylethoxy)amino]- β -ethyl- (9CI) (CA INDEX NAME)



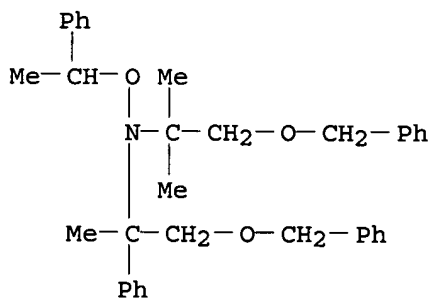
RN 597555-82-3 CAPLUS

CN Benzoic acid, 2-methoxy-, 2-[[2-[(2-methoxybenzoyl)oxy]-1,1-dimethylethyl](1-phenylethoxy)amino]-2-phenylpropyl ester (9CI) (CA INDEX NAME)



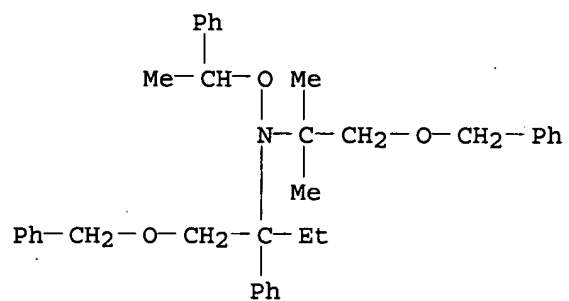
RN 597555-83-4 CAPLUS

CN Benzenemethanamine, N-[1,1-dimethyl-2-(phenylmethoxy)ethyl]- α -methyl-N-(1-phenylethoxy)- α -[(phenylmethoxy)methyl]- (9CI) (CA INDEX NAME)



RN 597555-84-5 CAPLUS

CN Benzenemethanamine, N-[1,1-dimethyl-2-(phenylmethoxy)ethyl]- α -ethyl-N-(1-phenylethoxy)- α -[(phenylmethoxy)methyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

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